

What is claimed is:

1. (Currently Amended) A method for preparing a Ziegler-Natta catalyst for olefin polymerization, which is produced by a method comprising a step of reacting a transition metal compound having a general formula of  $\text{MX}_{p-(q+r)}(\text{OAr}_1)_q(\text{OAr}_2)_r$ , with an organomagnesium compound having a general formula of  $\text{MgX}_{2-m}\text{R}_m$ , wherein M represents a transition metal having an oxidation number of 4 or more, selected from Groups IV, V or VI of the Periodic table; X represents a halogen atom; Ar1 and Ar2 each represents substituted or unsubstituted aryl group of 6 to 30 carbon atoms, in which the Ar1 and Ar2 are not linked to each other; p presents the oxidation number of M of 4 or more; q and r satisfy  $0 \leq q \leq p$ ,  $0 \leq r \leq p$  and  $2 \leq q+r \leq p$ ; R represents an alkyl group of 1 to 16 carbon atoms; and m satisfies  $0 \leq m \leq 2$ .

2. (Currently Amended) The method according to claim 1 ~~The Ziegler-Natta catalyst for olefin polymerization according to claim 1~~, wherein the transition metal compound and the organomagnesium compound are reacted at  $60 \sim 90^\circ\text{C}$  with a molar ratio of  $0.1 \leq \text{the transition metal compound/the organomagnesium compound} \leq 0.5$

3. (Canceled)

4. (Canceled)